

A  
Treatise  
on  
Pneumonia  
by  
John R Stone  
of  
Bedfordburg  
Virginia

Passed March 18<sup>th</sup>  
1824

W. S. H

Dean

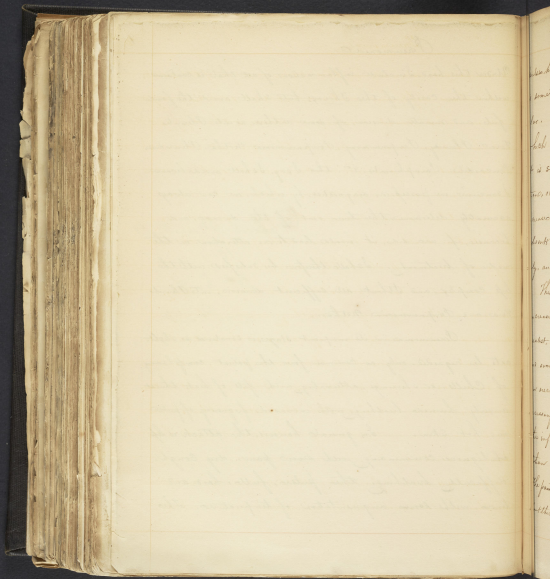
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## Pneumonia

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Under this head, I include inflammations of all that is contained within the cavity of the Thorax; but shall avoid the profuse and minute division, of some authors, as into Pleuritis Vesic. Pleurisy, Empneumony, Empneumonia Notha, Pleurodynia, Pericarditis, Parapneumonia, &c. this I say, I shall avoid, because I conceive we possess no diagnostics, by which, we can always accurately determine the true seat of the disease, and hence, if we did, it would lead to no alteration, in the mode of treatment. I shall therefore be satisfied, with the less complex, and I think all sufficient division, into Pleuritis Vesic. and Empneumonia Notha.

Pneumonia in its incipient stage, is sometimes so slight, as to be regarded, only as common fever, the patient complaining of Chills, or shiverings, alternating with fits of heat, thirst, anxiety, hurried breathing, with increased frequency of pulse and hot skin. In general however, the attack is less aphoristic, commencing with severe pains, dry Cough, difficult breathing, the pulse, full, hard, and tense, with some augmentation of temperature. The

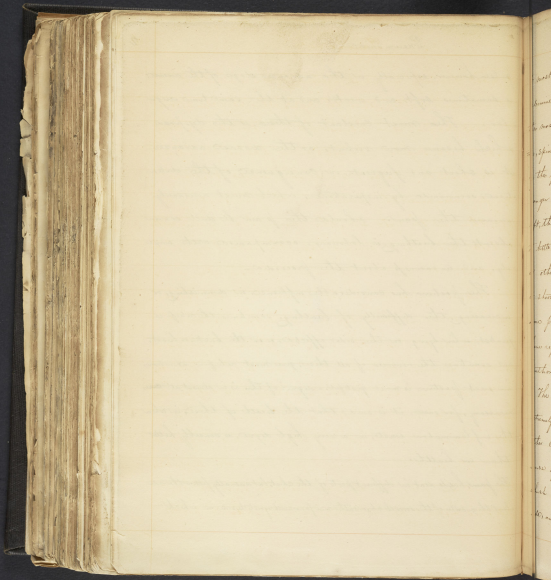




pulse however, especially in the advanced stage of the disease is sometimes soft and weak, and at the same time irregular. The most constant of these, is the dyspnoea which becomes more violent, as the disease advances, it is short and frequent, in consequence of the distention, occasioned by inspirations, which must necessarily increase the pain. Should the pain be dull or even absent the breathing, is laboured, accompanied with anxiety, and uneasiness about the precordia.

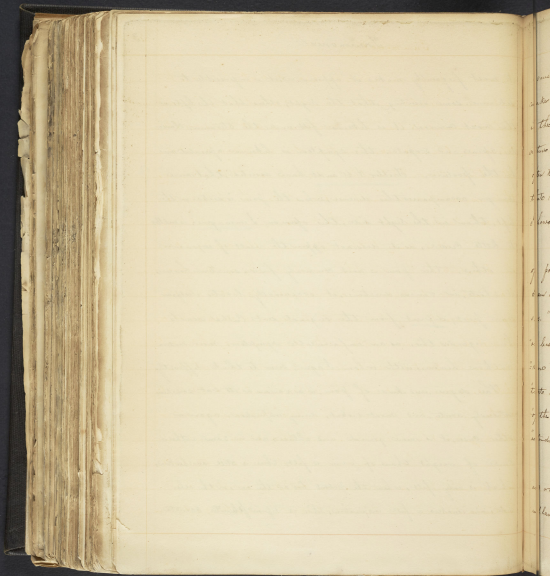
The posture has considerable influence in diminishing, or increasing the difficulty of breathing, sometimes the relief is greatest, when lying on the side affected, or on the back, or breast, and sometimes the reverse of all these, gives most relief. Sometimes an erect posture is most grateful a degree of this is in almost all cases necessary, for even, it is said that the breath of those in whom the inflammation exists, in a very high degree, is sensibly hotter than in health.

The pain, though seat in different parts of the chest, but usually felt in the side about the middle of the scapula, or rather more forwardly upon the side in which



it most frequently makes its appearance; it is impossible to determine, some asserting, that the right, others that the left is the most common, it is likewise felt under the sternum, clavicle, spine and scapula. this symptom is likewise operated on by the posture. Failler & Wondt have asserted, that more danger accompanies this disease, when the pain is seated on the left, than in the right side, this opinion Sennagier, is entitled to little credit, as it does not appear the result of experience in others. the pain is most commonly fixed; sometimes however it shoots, in various directions, it occasionally locates itself in some part, different from the original seat & called seems to have regarded this as an unfavourable symptom, more modern authors however, with whom I agree, seem to think differently.

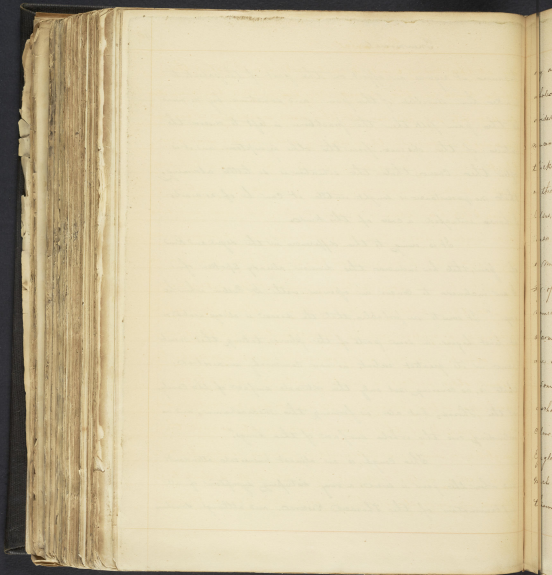
The degree and kind of pain, is as various as its seat, sometimes extremely acute, and most violent, during inspiration, again at other cases, it is more general and obtuse, and in some rather a sense of weight than of pain is felt, there is still another kind, which is only felt, when the patient lies on the one, or the other side, and makes a free inspiration, this is defined pleuritis doctata.



because it requires an effort, on the part of the patient, to make him sensible of the pain, and sometimes, by no means is the pain felt, then the practitioner is left to discover the nature of the disease, from the other symptoms, and it is often this case, that the situation is so little alarming, that no assistance is sought, until it can be of no avail. I have witnessed a case of this kind.

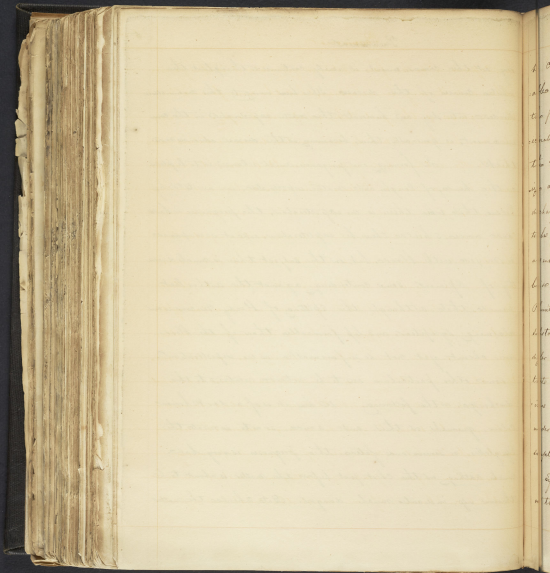
It is owing to the difference in the degree and kind of pain, that has induced the division already spoken of. I am inclined to concur in opinion with Dr. Keelin when he says, "It seems so probable, that the serosa is always sealed or at least begins, in some parts of the pleura, taking that membrane in its greatest extent, as now commonly understood; that is, as covering not only the internal surface of the cavity of the Thorax, but also as forming the mediastinum, and as extending over the whole surface of the lungs."

The Cough, is an almost universal attendant, and when the pain is severe, a very distressing symptom of all inflammations of the Thoracic Viscera, and although sometimes



dry at the commencement, it rarely continues so throughout the whole course of the disease. It has been owing to this circumstance divided into dry and humoral, the matter expectorated in the commencement, is generally thin, becoming as the disease advances more thick. In forming our prognosis, much reliance is to be placed on the kind, of cough and matter expectorated, we are told by Celsus, that when there is no expectoration, the prognosis is bad and worse, should there be expectoration, and it is accompanied or mixed with blood, but on this subject there is much diversity of opinion. Some contending against the author's hint, remark, that although the spitting of Hoarse Mucus is an alarming symptom, and less favorable than if the blood were absent, yet not so unfavorable, as the expectoration.

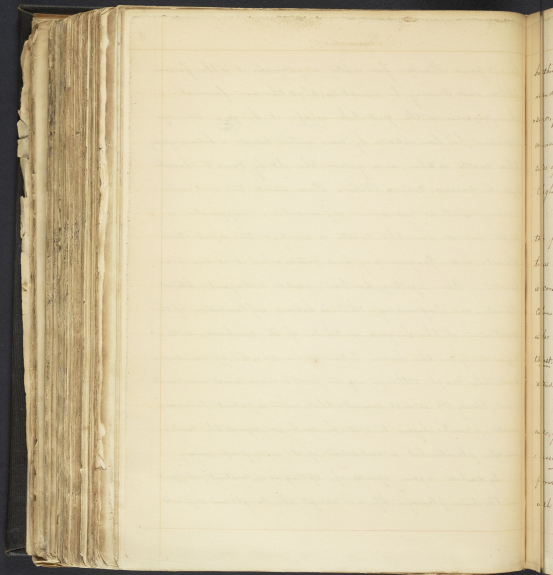
Some other particulars are to be noticed relative to the discharge, as the following. When it is of a dark brown color, granular or thin, and acrid, so as to irritate the Epiglottis, or Sensus and Felix, the prognosis is very bad. Much rattling in the chest, just before the matter is about to be thrown up, indicates much danger. Also should the matter





be copious. Mucus, pure & white, or yellowish it is then favourable, and it may be remarked, that the more favourable the prognosis is, the greater the relief it brings. An expectoration, has been noticed by some writers, termed a bilious spitting, the matter is thin, and yellow, thought by some to characterize a disease, called Bilious Pneumonia, this sort mucus discharge, is to be regarded as unfavourable. Suppuration is to be decided when the matter is scanty, or the expectoration absent, and Gangrene may be suspected, when it is sanguine or livid. The spitting has been regarded, a diagnostic, between Pleuritis, and Pneumonia, that is between inflammation of the substance of the lungs, and that of its Membrane, Authors differ widely on this head. Cullen in his definition of Pleuritis, that the cough, although dry at first, becomes moist and sometimes bloody. Wendt remarks, that when a patient labouring under pleuritis, begins to spit, he no longer regards the Case as simple pleuritis, but a combination of it and pneumonia.

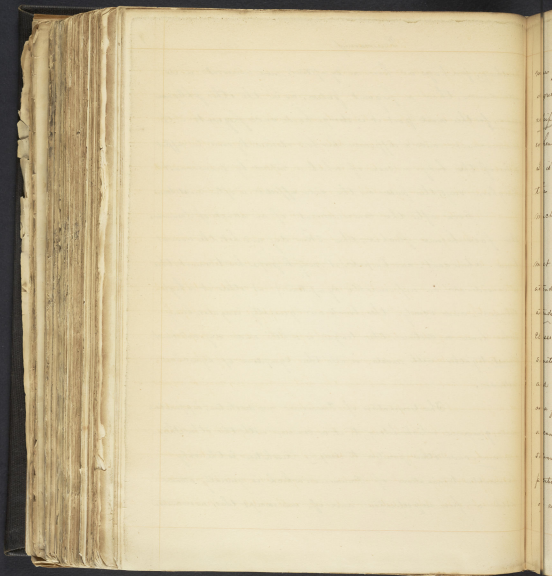
Sydenham again speaks of Spitting as a constant attendant on the true pleurisy. If we except the Cough and difficult



breathing, perhaps we have no symptoms, more universal in its attendance, than a frequent pulse, as in the other phlegmasias, for the most part it is strong, hard and frequent in the commencement and a difference has been observed by some in different sides of the body, a case of which is noticed by Linnæus. Eberles says, the pulse on the side affected is often moribund.

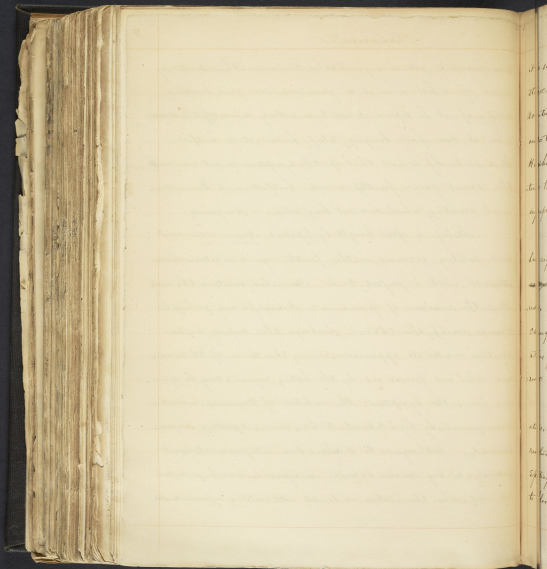
Soon after the commencement of an attack of Traumatic, the face becomes flushed; the skin dry and hot, the animal spirits abundant, and limpid; (it may be proper here to remark that this is considered an unfavourable symptom.) at others it is high coloured, and scanty, the bowels are generally irregular, being either loose or costive. the tongue is white and dry, and much thirst, together with most, or all the symptoms of dysenteria attend.

The terminations of Traumatic are resolution, suppuration and gangrene which belong to it, in common with the other Phlegmasias, and others peculiar to itself. Resolution is the only favourable termination of Traumatic, which is generally attended with a free expectoration, and if we except this, no cure is



more frequently attends a favorable termination, than almost any degree of which when it is general, seldom fails bringing relief, if it be copious it sometimes entirely cures off the disease when it does fail bringing relief however, it is hurtful. It is said by Woudt that if the symptoms do not soon remit the case is more fruitful or even hurtful, and Quain says, much vomiting which does not bring relief, is dangerous.

Relief is often brought by Epistaxis. Goffman considers it most salutary occurring on the fourth day, it is seldom however attended with a perfect Crisis. Hemorrhoids, sometimes the rarely attend the remissions of pneumonia. Hemoptysis may perhaps be classed among the cutaneous discharges, the Milium suppur sometimes makes its appearance, during the course of the disease, and when not forced out by the heating regimen, may be regarded as a favorable symptom, the resolution of Pneumonia is sometimes accompanied by high colored turbid urine, depositing a copious sediment. With regards to discharges I am not prepared to speak positively, or say much, I should imagine it would be productive of relief, when the intestines are loaded with irritating, offensive matter.

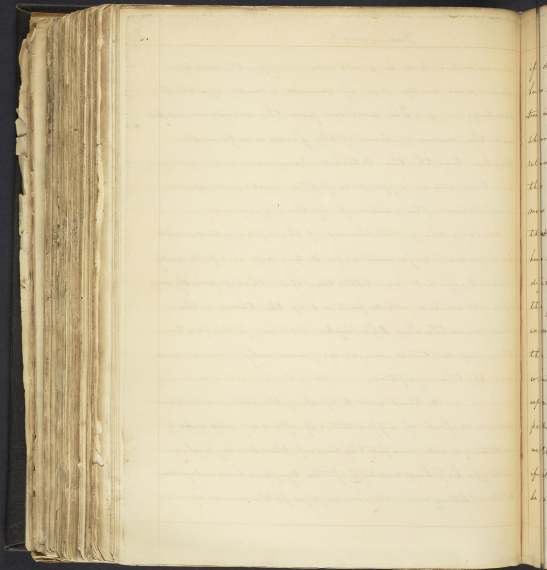


it is said to be most beneficial when occurring in the advanced stage, what has been said of diarrhoea is mostly applicable to vomiting.

The discharge from the Schneiderian Membrane and the Mucous Membrane of the fauces, is invariable. Huxham terms this the Catarrhus Pneumonicus. Pneumonia sometimes terminated by suppuration of the parotid glands, or by suppurative inflammation of the surface.

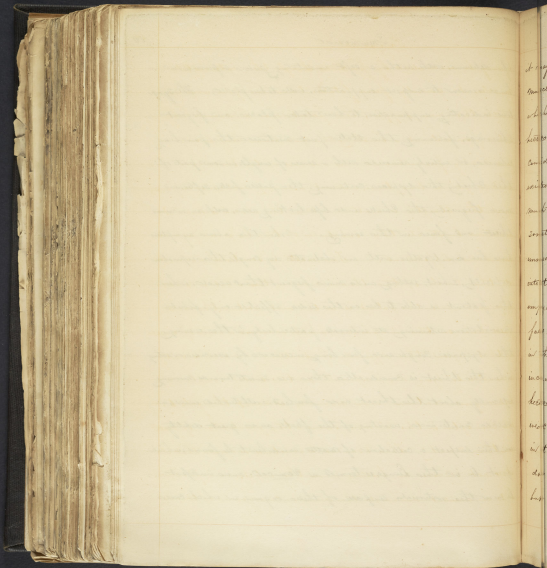
Every change in the seat of the inflammation, is not to be regarded as favourable, for it may seize on a part, equally ~~sensible~~, if not more so, than that which it previously occupied, it sometimes attacks parts out of the thorax, in these changes, as the Liver, the Spleen &c. these favourable terminations just mentioned, are always preceded, by a general remission of the symptoms.

We have next to speak of the inflammatory terminations, and first of suppuration, If after 5 or 7 days signs of resolution, do not manifest themselves, if there be a dry cough, or a spitting, which brings no relief, if the symptoms have not yielded to blood letting, and other remedies proper for this disease, especially,

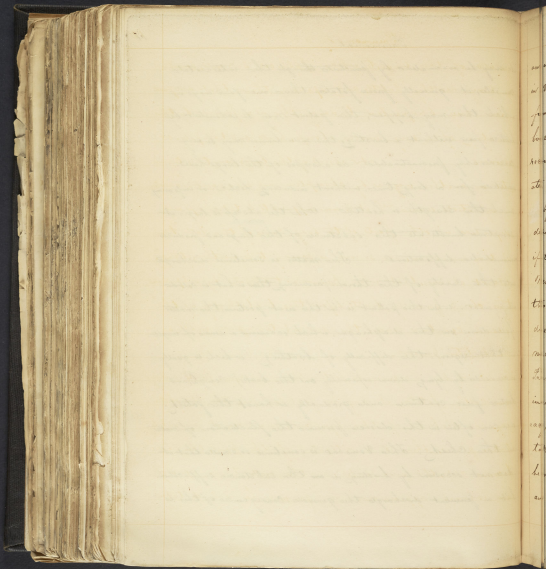




if delirium, with rather a soft undulating pulse supervenes, we have reason to suspect suppuration, will take place. The symptoms indicating suppuration to have taken place, are frequent shiverings, following the state just mentioned, the pain being removed, or entirely removed with a sense of weight in some parts of the chest, the dyspnoea continuing, the pulse full, softer, and more frequent, the Cheeks and lips looking red, with an increased thirst and fever in the evening. When these above symptoms have been seen, together with an obstinate dry cough, the respiration difficult, short, rattling, and more frequent than usual, when the patient is able to lie on the side affected only, pulsus inaequalis returning at intervals, particularly in the evening, the dyspnoea, cough, and fever being increased by exercise or sitting when the thirst is considerable, there are sweats towards morning especially about the throat and forehead, with torrid urine, or pallid countenance, wasting of the flesh, and great debility we then suspect a collection of matter somewhere to be found, which if it be in the lungs, is termed a Pneumal. and unless it be near the external surface of these organs, in which case



it may be separated by puncture through the intercostal muscles, it generally proves fatal. there are four ways in which this may happen, the patient may be exhausted by hectic fever without a bursting, this, even however may be very considerably protracted, as abscesses of the lungs have existed for a long <sup>or</sup> time, without inducing hectic, or impairing much the strength or health. When the abscess is large, it sometimes bursts into the substance of the lungs and produces immediate suffocation. The matter is sometimes discharged into the cavity of the thorax, producing that which is called empyema. When the patient is in the erect posture, the matter falls down on the diaphragm, which occasions a sense of weight in that region, the difficulty of breathing, (which is greatly increased by lying down especially on the back) cough, and hectic fever continues and gradually exhausts the patient. we can often in this disease perceive the fluctuation of matter in the chest. This Vomica is sometimes so small that it does not occasion by bursting in on the substance suffocation but a purulent discharge the general consequence of this is



an ulcer of the lungs, to which Pthrosis succeeds, sometimes in very healthy habits, and especially those that are free from any scrophulous tendency, this ulcer formed by the bursting of a very small abscess, heals and the patient recovers.

An abscess of the lungs sometimes terminates in another way, as by absorption and subsequent excretion by Stools &c. &c. it is now supposed to be taken up and deposited in other parts of the body. Cases of the latter kind if they ever occur, are so rare as scarcely to be worth noticing.

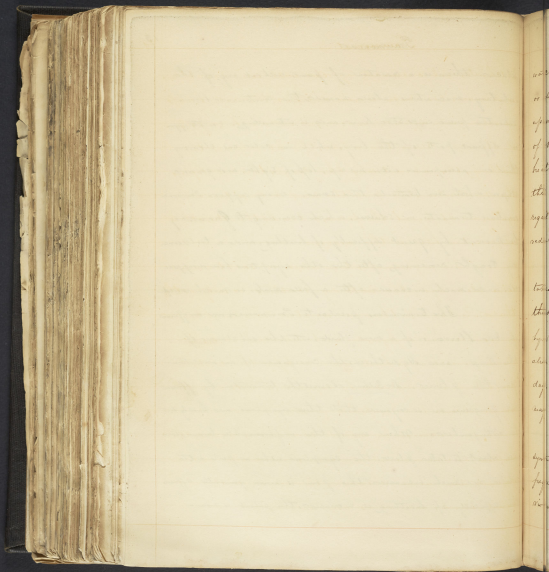
Wendt observes, that when Pneumonia terminates by suppuration the abscess generally bursts before the twentieth day of the disease, sometimes however this does not take place until a much later period.

The termination of Pneumonia by Gangrene, is fortunately very rare, for it is always immediately fatal. It may be foretold from the the obstinacy, and violence of the symptoms, and when it is about to take place, there is a mitigation of the pain, the cheeks become red, the pulse sinks, and the matter thrown up is of an ichorous appearance, when gangrene has actually taken



places, there is a cessation of pain, without any of the  
solitary, evacuations, above named, the countenance becomes  
pale, the pulse and the heat, are intermitting, & sometimes  
in different parts of the body, which are cold and clammy  
these are accompanied with hiccup, loss of sight, and general  
stupor, which now terminate the same. Many suppose Pneumonia  
sometimes terminate in solution, which according to Gorradius  
he knownt by great difficulty of breathing, and a troublesome  
dry Cough, remaining, after the other symptoms have disappear-  
ed, and much increase after a full meal, or much exercise.

The terminations peculiar to Pneumonia are an effusion  
of red blood, or of a serous fluid, into the substance of  
the lungs. and by distension, the consequence of an evacuation  
from the pleurae, Dr. Cullen observes the termination by effusion  
and gangrene are so conjunct, that these symptoms are hardly to  
be distinguished. When any of the unfavorable terminations  
are about to take place, the symptoms either in part or the  
whole are much increased, the pain is more generally diffused  
the difficulty of breathing is increased, the patient is now -

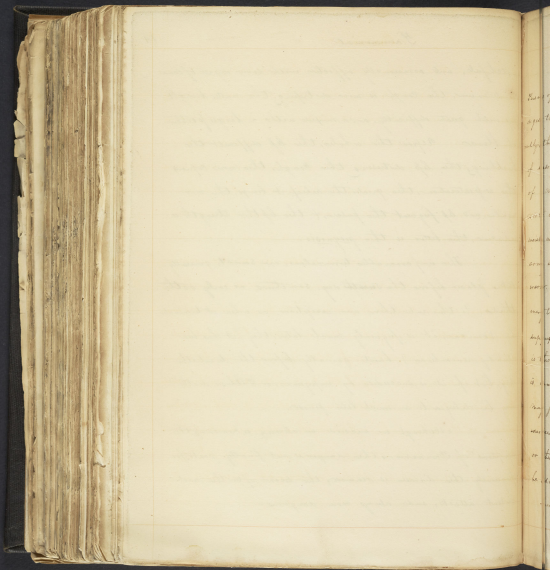




watchful, and occasionally affected with some degree of coma or delirium, the cough is more distressing, the matter brought up with great difficulty, and mixed with a larger portion of blood. Upon the whole, the less difficult the breathing, the less distressing the cough, the more copious the expectoration, the greater the relief it brings, the more regular, and less frequent the pulse, & the less the strength is reduced, the better is the prognosis.

The unfavorable terminations, are said to generally take place before the twentieth day, sometimes as early as the third, & to this rule there are exceptions, as when it terminates by Vomica, it is frequently much later, though (it has been already remarked) almost generally, before the twentieth day, but if it is succeeded by empyema, or pleuritic death may be delayed to a much later period.

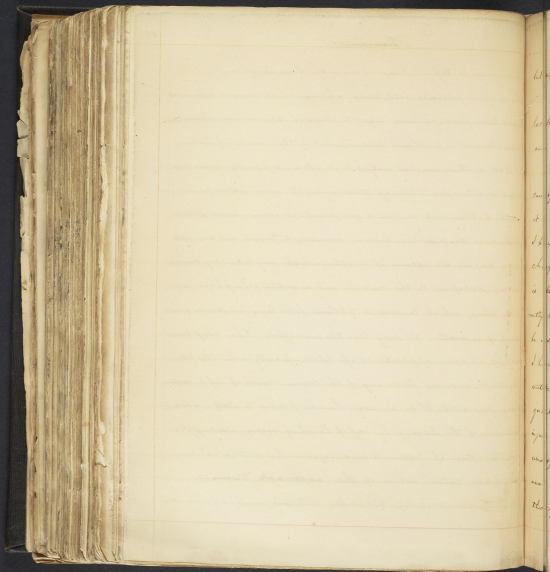
Although we succeed in relieving or removing the symptoms of Pneumonia, the danger is not finally past, for frequently the disease is renewed, the second often the most violent attack, and always more dangerous.



## Of the Cause of Pneumonia.

Persons of a phlegmatic habit, strong, who use much exercise, and are very  
 averse to their food, are most subject to attacks of this disease, and among  
 others, those of a relaxed habit, indolent in their manner of life, prone  
 to bad digestion, are least subject to it. It most frequently attacks persons  
 of a middle age; Cullen says those between the ages of 45 and 65 are  
 most liable, but as age is far from it, it occurs oftenest in cold  
 moist, and damp weather, hence according to Fringle and some other  
 army surgeons, all returns of weather, whether very cold, dry, damp, or  
 warm, predispose to this disease, and as in the other phlegmasias,  
 every thing which conduces to phlegma, fullness, repletion, or  
 suppurated secretions &c. may have the same effect. The chief cause  
 is the sudden application of cold, especially when the skin  
 is damp, and in fact any of the common causes of inflammation  
 may produce it; there are some however peculiar to itself, as violent  
 exertions of the lungs, as by cough, laughing, singing, speaking &c.  
 or the action of certain noxious vapours, imhaled, to which may  
 be added, certain diseases of the Abdominal Viscera &c.

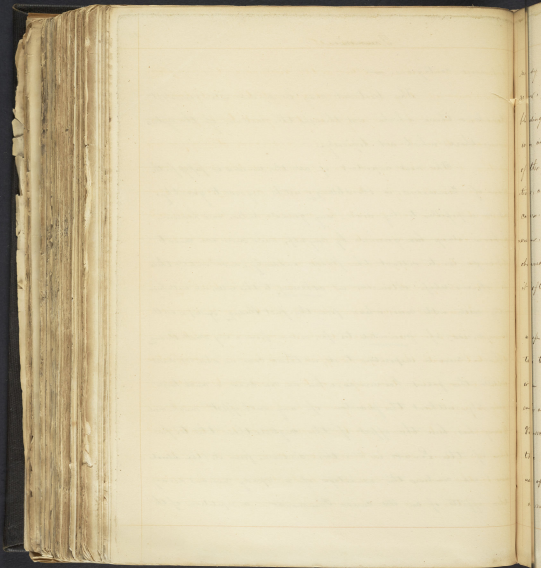
Pneumonia according to the best writers, is sometimes Epidemic.



but more contagious. —

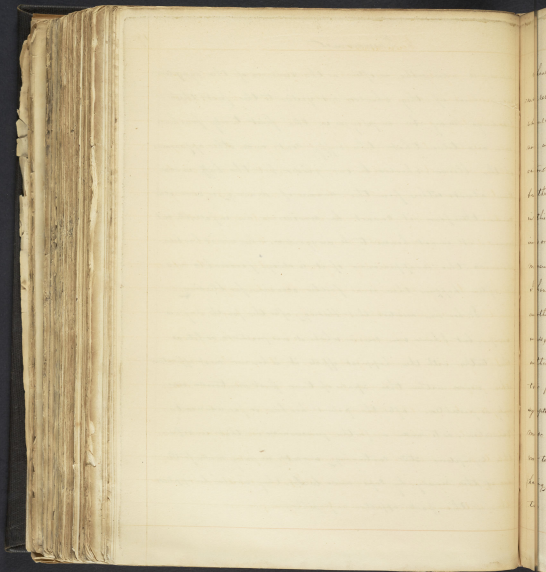
This treatment may be divided into general & local, or those which act through the medium of the system and those which act topically.

The most important of all the remedies we possess for the cure of Pneumonia, is bloodletting, with regard to quantity, it is impossible to lay down any general rules, one however I have always been governed by myself, and never seen want to change is, to detract the fluiss suddenly, and until there is obvious relief obtained, in adhering to this rule, we will frequently meet with cases, where from the first bleeding, syncope will be induced, if proceeded too far, or even from a very small bleeding, I have seen a disposition to it, in these cases we should wait until the patient has revived, when we can draw a much larger quantity, without the production of any such effect, Much more injury has been the effect of the neglect than the too free use of the lancet in this disease, from its (the blood) we combine the advantages of a speedy cure, and decaying the effects of an ill cured Pneumonia, a replication of the



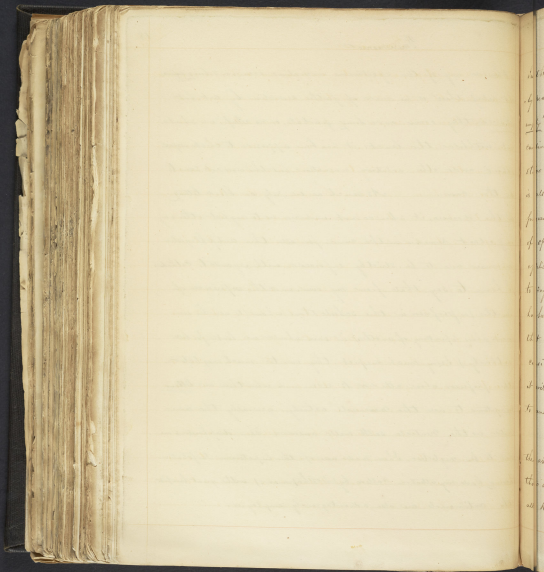
remedy is advisable, as often as the violence of the symptoms  
renew, and if they should not yield to the first, three  
bleedings may be employed in the first twenty four hours  
and are told that the buffy coat, and other appearances  
of the blood, should be our guide, but the buff is some-  
times, absent either from the manner of drawing, or some other  
cause, therefore it cannot be considered an infallible crit-  
erion, it is not however to be disregarded, when ever it has been  
observed, the disappearance of it is always favourable, and  
it often happens there is no farther occasion for bleeding.

It has been asserted that bleeding, after the fourth day, is  
useless, but I have seen cases in which it was practised, as late as  
the tenth, with the happiest effects, it is however most effective  
when used within the space of time first mentioned, and  
only as possible, after the patient has been so far reduced by  
Evacuation, as to make a farther prosecution in that course,  
the symptoms still continuing, urgent, we may make farther  
use of the remedy by cups, and leeches, they should be applied  
as near the parts affected as possible.



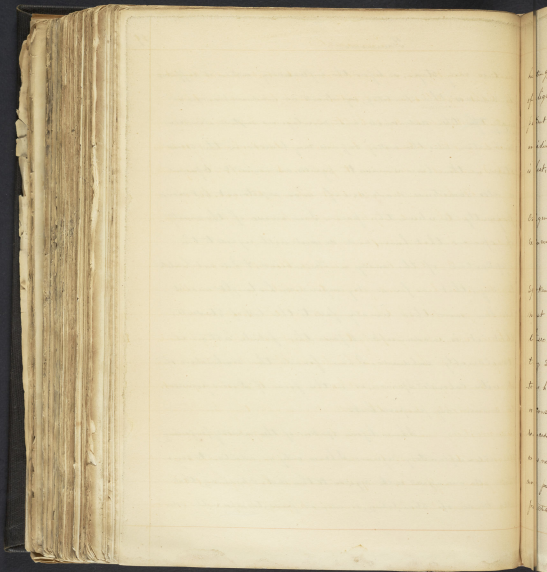


Should any of the spontaneous evacuations occur, and bring sufficient relief, there is no need of further reduction by art, but should they occur, and bring partial, or no relief, we should not withhold the lancet. It has been supposed to check capillary action, and other salutary evacuations, but this does not seem to be the case. As much as we rely on blood-letting in this disease, it should not induce us to neglect other very important remedies in the cure, for all the antiphlogistic measures are to be strictly enforced, with regards to Calomel I have to say, that from my own, and the experience of another (a professor in the school where I went to see his own nephew speaking of another) in said school we look for best authority, being much suspect they are too much negative. The professor above alludes to recommending when there are lithic symptoms to use the Mercurole cathartic, generally the more mild as the Mentale salt will answer. The diaphoresis are not to be neglected, I have made use of the Eupatorium Perfoliatum (having had my attention called by Dr. Chapman) with great benefit. The Antimonial are also advantageously employed.



In the early stage, or before the inflammatory action is sufficient to relieve, the stimulating expectorants are inadmissible, nor can ~~any~~ the antimonials, and mucilaginous syrups alone, or combination also the astringent vapours may be used, in the severe stage in this I have recourse to squills, ammoniac &c. Opium is also sometimes made use of as an expectorant, but more frequently to relieve the pain, I am aware of the scarcity of opium that bears, and do exist, with regards to the application of this remedy in Pneumonia, I do not hesitate to say, that as far as my experience has taught and it has been more than usually falls to the lot of students, that it is inadmissible before the febrile action is considerably subdued, I have found the combination of it with Colocynthis, or in the form of Dover's powder to answer my purpose best.

I have before spoken of the necessity of enforcing the anti-inflammatory regimen, I have only in addition to say, that all are agreed with regards to the diet, determining that all kinds of Stimulating, or animal food, together with all



heating drinks, are inadmissible, and that it should consist of light rigorals, or weak both, and such like articles. The patient should be kept lightly covered in bed, carefully avoiding all extremes of temperature, that of about 98 degrees is best, and it is desirable to preserve it as uniformly as possible.

It has been thought, that lowering the quantity of oxygen in the atmosphere would be a powerful means of reducing inflammation.

Of this local means of bloodletting, I have already spoken. I shall next precise to Blisters which are the most powerful of the remainder of the local remedies. These are when properly timed most valuable applications. They should be used, either before the inflammatory symptoms have appeared, (when they are said to sometimes prevent or considerably lessen the attack,) or after they have been removed; they should be pretty large, and applied immediately or as near the seat of the pain as possible, when one does not prove sufficient, a repetition should be frequent, the practice sometimes made use of, keeping it open by stimulating

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applications orunctions. Sinapisms are also used with the same object in Pneu. as blisters. they are however inferior to the latter in effect, and should never supplant them in practice. Fomentations are made use of in domestic practice and are sometimes very relieving, there are many other means made use of by Nurses, and in families some of which are highly useful, but which need not be mentioned, as they will most frequently or always occur to the minds of the practitioners, if not remind of them by the attendants.

I regret, that the prejudice of persons in the western of country in which I have resided, is so great that (tho tho deaths are very few) an opportunity was not offered me of making Post mortem examinations.

This end.

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